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File: USPT

Nov 8, 1994

US-PAT-NO: 5362365

DOCUMENT-IDENTIFIER: US 5362365 A

TITLE: Purification of acetic anhydride or acetic anhydride and acetic acid using ozone

DATE-ISSUED: November 8, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Niijima; Hiroyuki	Himeji	N/A	N/A	JPX
Akita; Kazuyuki	Himeji	N/A	N/A	JPX

US-CL-CURRENT: 203/31; 203/98, 203/DIG.19, 562/519, 562/608, 562/891, 562/898

## ABSTRACT:

Acetic acid and/or acetic anhydride containing methyl crotonate, vinyl acetate, or both as impurities, is contacted with ozone in an amount of excess molar to the carbon-carbon double bond in said methyl crotonate and/or vinyl acetate and the impurities produced by ozone-treatment are removed off by distillation. A large quantity of impurities such as aldehydes are produced after treatment by treating acetic acid and/or acetic anhydride containing much amount of unsaturated compounds as impurities with ozone. Distilling the ozone-treated acetic acid and/or acetic anhydride make it possible to remove methyl crotonate and vinyl acetate, which are unsaturated compounds difficult to remove by the conventional separation methods, to give high-quality acetic acid and/or acetic anhydride excellent in the residence time in the potassium permanganate test.

17 Claims, 0 Drawing figures Exemplary Claim Number: 1

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